

MELUCK[®]

Enjoy the future with science



H series semi-hermetic two- stage screw condensing unit



美乐柯集团
MELUCK Group

美乐柯集团简介

MELUCK Group Company Profile

安徽美乐柯制冷空调设备有限公司（以下简称“美乐柯”）成立于2011年，一直专注于制冷空调产品的研发与生产，从事制冷领域30余年（原总部公司成立于上世纪90年代、2003年成立上海公司，2011年整体产业转移到安徽宣城）。美乐柯专业生产商用和工业用制冷成套设备，主导产品有冷库用冷凝机组、工业用低温冷水机组、冷风机等。其中冷库用冷凝机组涵盖涡旋、半封活塞、螺杆等多种类型，可应用于大、中、小型各类冷库。半封闭活塞并联冷凝机组、整体式库用冷冻机已获得“安徽省新产品”认定。根据中国制冷空调工业协会和产业在线提供数据，2022—2023年度，美乐柯冷凝机组产品销量分别为1.6万台和1.8万台，市场占有率分别为11.1%和12.0%，在中国同行业中排名第二。美乐柯荣获省专精特新冠军企业、省级企业技术中心、省工业设计中心、省消费品工业三品示范企业、省商标品牌示范企业、工业互联网示范企业、通过了质量、环境、职业健康、知识产权贯标管理体系认证。

我司经营战略旨在应对瞬息万变的市场环境，积极把握行业发展趋势，持续优化业务布局，强化核心竞争力，以期在未来实现稳健且可持续的增长；同时聚焦具体细分市场，深度挖掘目标客户群体的需求特点，打造高度契合其需求的产品与服务。公司将通过技术创新、优质服务、独特设计、高效运营等手段，塑造鲜明的品牌形象与价值主张，在精密环境控制机组、实施农业和产地预冷技术与装备等方向拓展新业务，以实现市场占有率的稳步提升和企业的持续发展。

美乐柯具备雄厚的制冷技术储备、先进的生产流水线和检测设备，按产品制造要求，建立了全套的生产制度流程与完善的质量保障体系。同时公司拥有一系列完整的晋升通道，培训体系，薪酬制度，保障了企业人才梯队建设与员工个人成长。公司注重科技创新投入，目前自行研制的很多关键部件已申请国家专利，截止2024年6月，共获得7项发明专利，44项实用新型专利，6项外观发明专利；参与起草2项国家标准，已发布实施。美乐柯集团现有员工412人。

企业使命：致力于将美乐柯打造成百年企业。

企业愿景：成为行业内最优秀的冷冻冷藏集成系统服务商。

企业文化：以客户为中心，质量为本，简单高效，共创、共担、共享。



Anhui MELUCK Refrigeration Air-Conditioning Equipment Co., Ltd. (hereinafter referred to as "MELUCK") was established in 2011. It has been focusing on the research and development and production of refrigeration and air-conditioning products and has been engaged in the refrigeration field for more than 30 years (the original headquarters company was established in the 1990s, the Shanghai company was established in 2003, and the entire industry was transferred to Xuancheng, Anhui in 2011). MELUCK specializes in the production of commercial and industrial refrigeration equipment. Its leading products include condensing units for cold storage, industrial low-temperature chillers, and air coolers. Among them, the condensing units for cold storage cover a variety of types such as scroll, semi-sealed piston, and screw, which can be used in large, medium and small cold storages. Semi-sealed piston parallel condensing units and integrated warehouse freezers have been recognized as "Anhui New Products". According to data provided by the China Refrigeration and Air-conditioning Industry Association and Industry Online, in 2022-2023, the sales volume of MELUCK condensing unit products was 16,000 and 18,000 units respectively, with a market share of 11.1% and 12.0% respectively, ranking second in the same industry in China. MELUCK has won the title of provincial champion enterprise of specialization, specialization and innovation, provincial enterprise technology center, provincial industrial design center, provincial consumer goods industry three-product demonstration enterprise, provincial trademark brand demonstration enterprise, industrial Internet demonstration enterprise, and has passed the quality, environment, occupational health, and intellectual property management system certification.

Our company's business strategy aims to respond to the ever-changing market environment, actively grasp the development trend of the industry, continuously optimize the business layout, and strengthen core competitiveness, in order to achieve steady and sustainable growth in the future; at the same time, focus on specific market segments, deeply explore the needs and characteristics of target customer groups, and create products and services that are highly in line with their needs. The company will create a distinctive brand image and value proposition through technological innovation, high-quality services, unique designs, and efficient operations, and expand new businesses in the fields of precision environmental control units, implementation of agricultural and production pre-cooling technology and equipment, so as to achieve a steady increase in market share and sustainable development of the company.

MELUCK has strong refrigeration technology reserves, advanced production lines and testing equipment, and has established a full set of production system processes and a complete quality assurance system according to product manufacturing requirements. At the same time, the company has a complete series of promotion channels, training systems, and salary systems to ensure the construction of the enterprise's talent echelon and the personal growth of employees. The company focuses on investment in scientific and technological innovation. At present, many key components developed by itself have applied for national patents. As of June 2024, a total of 7 invention patents, 44 utility model patents, and 6 appearance invention patents have been obtained; participated in the drafting of 2 national standards, which have been issued and implemented. MELUCK Group currently has 412 employees.

Corporate Mission: Committed to making MELUCK a century-old enterprise.

Corporate Vision: To be the best refrigeration and refrigeration integrated system service provider in the industry.

Corporate Culture: Customer-centric, quality-oriented, simple and efficient, co-creation, co-sharing, and sharing.



美乐柯分公司

MELUCK Branch



安徽工厂——总部 Anhui Meluck Factory——Headquarter

美乐柯安徽工厂—安徽美乐柯空调设备有限公司总投资1.65亿元，占地200亩，是目前国内最大的制冷设备生产制造基地之一，专业制造和研发风冷凝器、蒸发器、冷凝机组、工业冷水机等制冷设备，公司2012年底已正式投入生产。

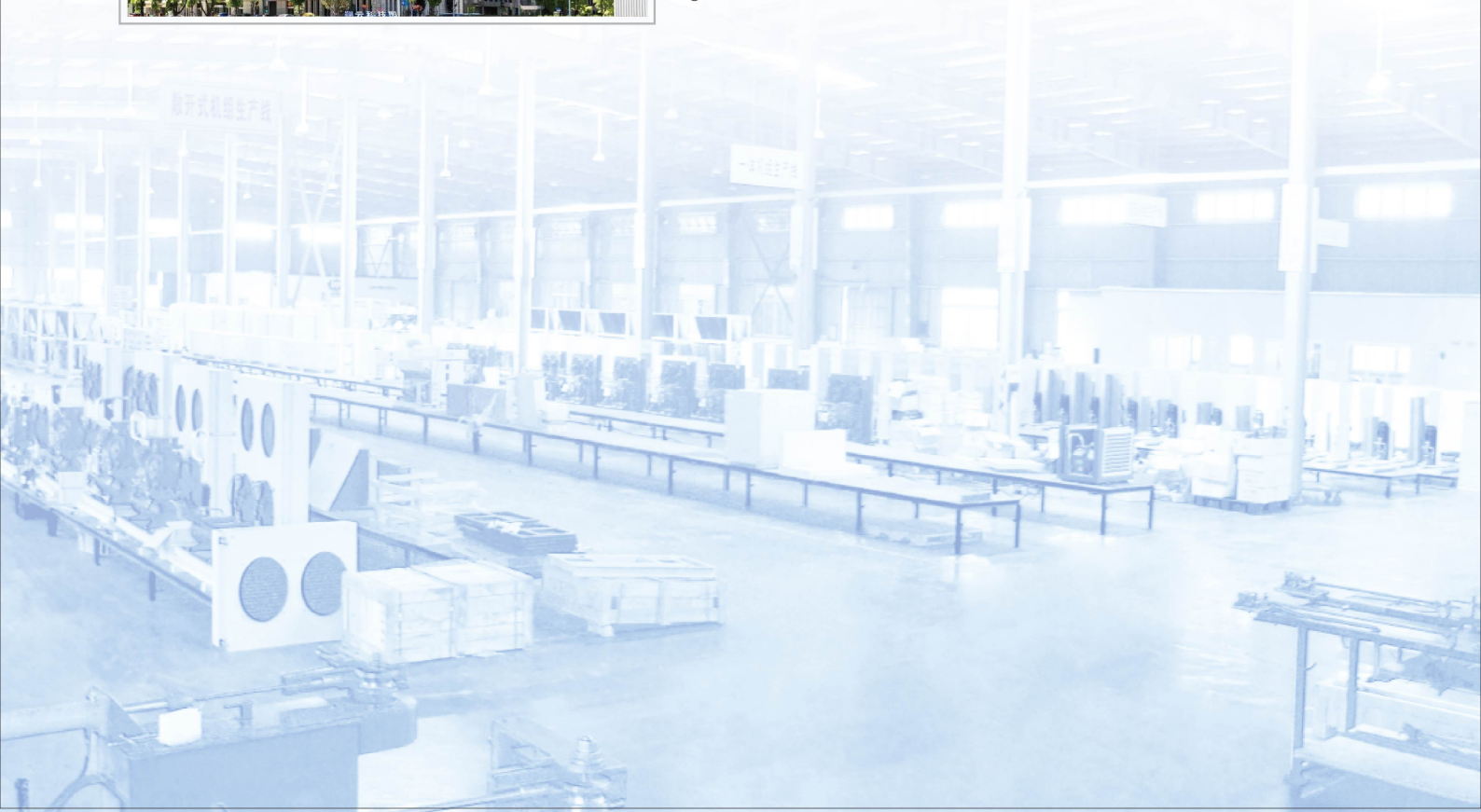
Anhui Meluck Refrigeration Air-condition Equipment Co.,Ltd. invested about U.S dollar Twenty Six Million, with 130000m² area; is one of the biggest refrigeration equipment manufacturing bases in China, specialized in manufacturing and researching for the refrigeration equipments like air cooled condenser, evaporator, condensing unit, industry chiller etc. the factory has started production in 2012.



上海美乐柯 Shanghai Meluck

上海美乐柯营销与服务中心，公司内有40名专业的销售和技术服务人员，为全球客户提供专业的技术支持和服务，公司具有GC2设计资质与安装资质，机电安装资质等众多权威资质，能为客户提供整体方案设计与选型服务。

Shanghai Meluck Marketing and Service Center consist of 40 skilled sales and technicians, providing professional technical supports and services to global customers. The company has GC2 design qualification and installation qualification, electromechanical installation qualification and many other authoritative qualifications. Can provide customers with overall program design and model selection services.



企业资质

Enterprise Qualification

不断创新, 确保客户对我们的产品满意, 被我们的服务感动, 争创名优!

Innovation, for the customer's satisfaction, With our excellent service and product



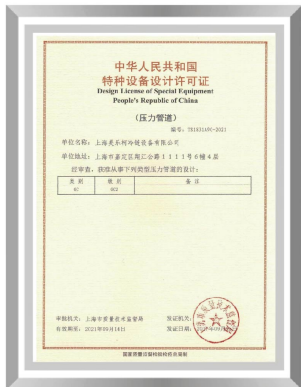
上海营业执照
Shanghai Business License



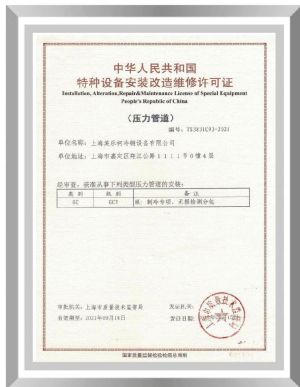
安徽营业执照
Anhui Business License



特种设备制造许可证
Certificate for Special High Pressure Vessel Manufacturing



压力管道设计证书
Pressure piping design certificate



压力管道安装证书
Pressure piping installation certificate



环境管理体系认证证书
Environmental management system certification



质量管理体系认证证书
Quality management system certification



安徽省商标品牌示范企业
Anhui Province Trademark Brand Demonstration Enterprise



高新技术企业证书
High-tech Enterprise Certificate



省认定企业技术中心证书
Provincial Certification of Enterprise Technology Center

一流的生产线

Advanced Machines Guarantee High Quality

精益化的生产节拍，标准化的工艺流程，通过优质的产品体现“美乐柯”的品牌价值

Advance equipment created excellent production ,and high quality of Meluck products.



先进的生产设备

Advanced Machines Guarantee High Quality

先进的设备和精湛的生产工艺，铸就了美乐柯产品的优秀品质！

Advance equipment created excellent production ,and high quality of Meluck products.



静电粉末喷涂生产线
Static electricity powder painting production line



数控折弯机
CNC bending machine



数控激光切割机
CNC laser cutting machine



卧式胀管机
Horizontal Type Pipe Expansion Machine



四柱油压机
4 Column Oil Pressing Machine



高速翅片冲压线
High-speed fin press line



数控5轴相贯线切割机机器人
CNC 5-axis intersecting wire cutting robot

H series semi-hermetic two- stage screw condensing unit

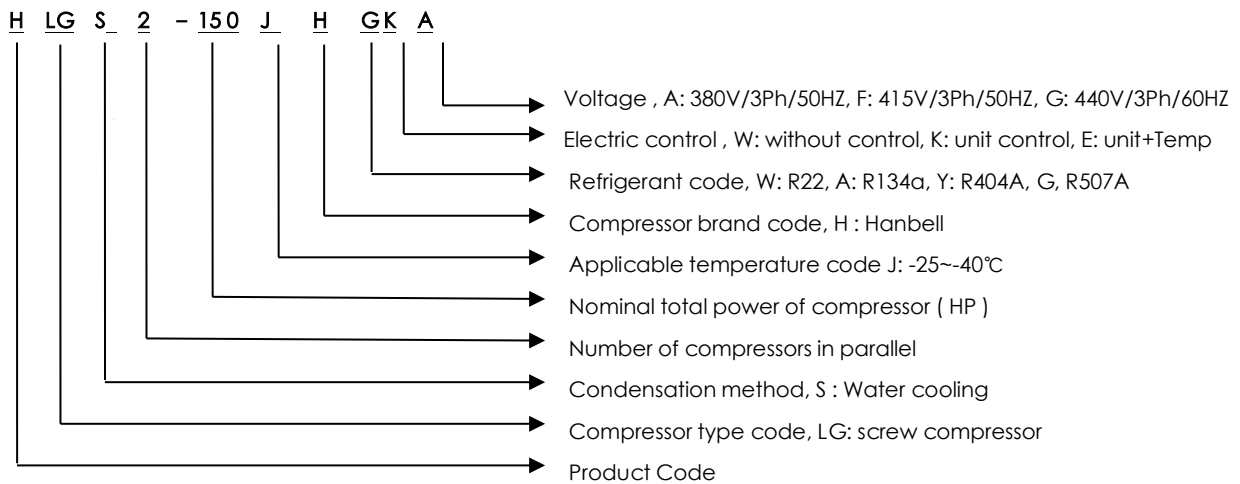
1. Product features:

Since the single-stage compression low-temperature screw unit has defects such as low energy efficiency and narrow evaporation temperature range when used in lower temperature applications, the low-temperature two- stage screw unit launched by our company can meet the needs of quick-freezing tunnels and quick-freezing warehouses with lower temperatures.

This series of products has the following features:

- ◆ High-performance semi-enclosed two-stage screw compressor is used, which has the characteristics of high efficiency, low vibration and high reliability;
- ◆ High energy efficiency ratio, compared with single-stage compressor units, high energy efficiency ratio and energy saving;
- ◆ The evaporation temperature is low. The lowest evaporation temperature of R22 can reach -60 °C, and the lowest evaporation temperature of R404A /R507A can reach -65 °C, which is more suitable for lower temperature applications.
- ◆ The unit adopts PLC control, which can realize multi-level energy regulation according to the change of cooling load, effectively reducing energy consumption;
- ◆ The unit has multiple protections such as overheating, overload, phase sequence, oil system, high and low pressure, etc.

2. Model Description:



3. Main configuration of the unit:

- Two- stage screw compressor (only for water-cooled units) components
- Oil separator
- Oil cooler
- Oil circuit components
- Condenser
- Liquid receiver
- Filter barrel
- Sight glass
- Economizer
- Liquid injection valve
- Gas-liquid separator
- Suction filter
- High and low voltage protector
- Pressure gauge
- Unit control box (PLC + touch screen)

Air cooled condenser / evaporative condenser is optional

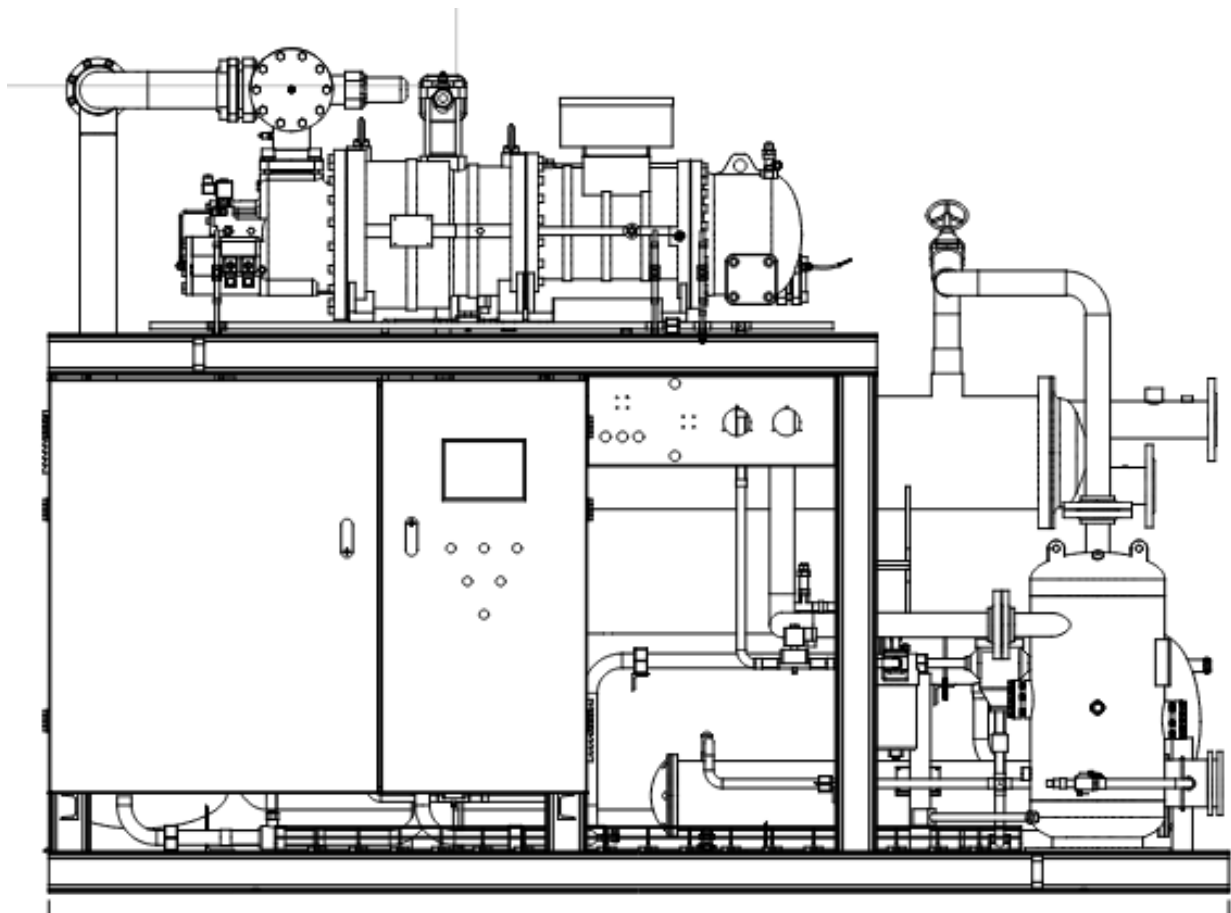
4. Main technical parameters of the unit

4.1. Water cooling unit series :

4.1.1 Refrigerant R507A :

Unit Model		HLGS - 50 JH GKA	HLGS - 75 JH GKA	HLGS -1 00 JH GKA	HLGS -125JH GKA	HLGS -1 5 0 JH GKA	HLGS -18 0 JH GKA	
Applicable evaporation temperature (°C)		-30~-6.5°C						
refrigerant		R 507A						
power supply		380V/3Ph/50HZ						
comp	form	Semi-enclosed two- stage screw						
	model	L TS-20/10	L TS-30/12	L TS-45/20	L TS-55/25	L TS-65/32	L TS-83/41	
	quantity	1	1	1	1	1	1	
Condenser	form	High efficiency shell and tube						
	Rated water flow (m ³ /h)	39.7	47.6	72.3	89.9	100.9	126.9	
	Condenser interface specifications	Rp3	Rp3	DN100	DN125	DN125	DN150	
	Oil cooler interface specifications	Rp1-1/2	Rp1-1/2	Rp1-1/2	Rp2	Rp2	Rp2	
Cooling capacity and power	evaporation -25 °C	Cooling capacity (KW)	101.5	127.8	198.5	254.0	291.6	368.1
		Power (KW)	57.4	66.8	104.7	125.7	149.7	175.6
	evaporation -30 °C	Cooling capacity (KW)	85.7	107.9	167.8	214.4	246.5	310.8
		Power (KW)	54	62.9	98.4	118.2	140.8	165.2
	evaporation -42 °C	Cooling capacity (KW)	57.6	72.5	112.7	143.5	165.7	208.9
		Power (KW)	46.9	54.5	85.3	102.6	121.9	143.2
	evaporation -45 °C	Cooling capacity (KW)	52.0	65.4	101.5	129.3	149.4	188.4
		Power (KW)	45.3	52.7	82.5	99.4	118.0	138.7
	evaporation -50 °C	Cooling capacity (KW)	43.1	54.3	84.0	107.1	124.1	156.3
		Power (KW)	43.0	50.1	78.5	94.7	112.3	132.0
	connection	Suction pipe (mm)	D N80	D N80	D N100	D N100	D N125	D N125
		Liquid pipe (mm)	Φ 35	Φ 35	DN40	DN40	DN50	DN50

Note: 1. Parameter calibration is based on condensing temperature 40 °C; 2. Rated water flow includes the water flow of the oil cooler



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MELUCK®

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安徽美乐柯制冷空调设备有限公司

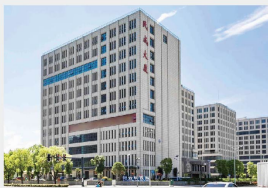
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